

ABSTRACT OF THE DISCLOSURE

A low-cost haptic feedback keyboard device for providing haptic feedback to a user for enhancing interactions in a displayed environment provided by a computer. The haptic keyboard device can be a keyboard having multiple keys, or can be a wrist rest or other attachment coupled to a keyboard. The device includes a housing that is physically contacted by the user and rests on a support surface. An actuator is coupled to the housing and applies a force to the housing approximately along an axis that is substantially perpendicular to the support surface, where the force is transmitted to the user contacting the housing. In one embodiment, the force is an inertial force that is output by moving an inertial mass. The keyboard device can be used in conjunction with another haptic device, such as a mouse, trackball, or joystick.